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10/576,048

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Koichi Shimamura

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54004

7590

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EXAMINER

KRISHNAN, VIVEK V

ART UNIT

PAPER NUMBER

2445

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PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/576,048	<b>Applicant(s)</b> SHIMAMURA ET AL.	
	<b>Examiner</b> Vivek Krishnan	<b>Art Unit</b> 2445	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 27 April 2009.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 2-50 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 2-50 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

Art Unit: 2445

### **DETAILED ACTION**

In view of the Appeal Brief for 10/576048 filed on April 27, 2009, PROSECUTION IS HEREBY REOPENED. The reasons are set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

(1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,

(2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been increased since they were previously paid, then appellant must pay the difference between the increased fees and the amount previously paid.

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing below:

/Vivek Srivastava/

### ***Response to Arguments***

1. Applicant's arguments with respect to Claim Rejections under 35 U.S.C. 112, first paragraph, have been fully considered and are persuasive. The rejections of Claims 16, 17, 26, 32, and 42 have been withdrawn.

Art Unit: 2445

2. Applicant's arguments with respect to Claim Rejections under 35 U.S.C. 102(b) have been fully considered and are persuasive. The rejection of Claims 44-50 have been withdrawn and are now rejected under 35 U.S.C. 103(a) as being unpatentable over De Vries and Michael. This Application has been re-opened on the basis of this new ground(s) of rejection.

3. Applicant's arguments with respect to Claim Rejections under 35 U.S.C. 103(a) have been fully considered but they are not persuasive.

a. Applicant argues that a user authorizing the provisioning of presence information to particular watchers by specifying which watchers are authorized to receive their presence information does not teach the creation and transmission of a watcher list in accordance with a request from the user.

Examiner respectfully disagrees. Micheal, paragraphs 19 and 21, strongly indicates the transmission of a list of watchers to the user at the user's discretion so that the user can *specify which particular watchers are authorized* to receive the presence information. Even assuming that the creation and transmission of a watcher list in accordance with a request from a user is not explicitly present in Michael, the fact that the server is creating, maintaining, and providing a buddy list to a user upon request, strongly points to the capability of the server, which already creates and maintains a watcher list, to provide that watcher list to users upon request. Furthermore, one of ordinary skill in the art would have strong motivation to make this modification in view of the fact that Michael discloses that users can specify which particular watchers are authorized to receive their presence information. For a user to specify particular watchers,

Art Unit: 2445

it would be strongly beneficial, if not necessary, for the user to be provided with a list of watchers.

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 2-7, 9-14, 16, 18, 19, 21, 23, 24, 27-30, 32-50 are rejected under 35 U.S.C. 103(a) as being unpatentable over De Vries and further in view of U.S. Patent Application Publication No. 2004/0170263 A1 to Michael et al. (hereinafter "Michael")

6. As to Claims 9 and 23, De Vries discloses a server apparatus and method (referenced hereinafter as the apparatus) in a presence display system comprising the server apparatus and a client apparatus for each user, constituted to allow the client apparatus to display the states of other users, comprising:

means for holding information indicating the states of each user and location information that are transmitted by each of the client apparatuses (De Vries; Figure 1, and paragraphs 6-8 and 24-31, discloses a server that holds people and place specific information about a user that is transmitted by a client apparatus);

Art Unit: 2445

means for storing a buddy list that registers other users whose states the user wishes to watch, for each user (De Vries; Figure 1, and paragraphs 6-8 and 24-31, discloses the server storing a buddy list for each user);

means for transmitting, to each user, information indicating the states of other users registered in the buddy list and information relating to the distance between the user and the other users (De Vries; Figure 1, and paragraphs 6-8 and 24-31, discloses the server transmitting to each user state, location, and proximity information regarding other users registered in the buddy list); and

De Vries does not explicitly disclose, however Michael discloses means for creating a list of other users that are watching the state of the user and allowing users to specify which watchers are authorized to receive their presence information (Michael; paragraphs 19 and 21, discloses creating and providing a list of watchers to the user for authorization).

Although Michael does not explicitly state that a watcher list is transmitted to the user in accordance with a request from the user, the fact that the server is creating, maintaining, and providing a buddy list to a user upon request, strongly points to the capability of the server, which already creates and maintains a watcher list, to provide that watcher list to users upon request. Furthermore, one of ordinary skill in the art would have strong motivation to make this modification in view of the fact that Michael discloses that users can specify which particular watchers are authorized to receive their presence information. For a user to specify particular watchers, it would be strongly beneficial, if not necessary, for the user to be provided with a list of watchers.

Art Unit: 2445

7. As to Claims 2 and 27, De Vries and Michael disclose each and every limitation of Claims 9 and 23. De Vries further discloses wherein the location information includes latitude and longitude information (De Vries; Figure 1, and paragraphs 13, discloses the user place information includes geographical coordinates), and the apparatus further comprises:

means for calculating the distance between the user and the other users registered in the buddy list on the basis of the latitude and longitude information transmitted by each user (De Vries; paragraphs 34 and 35, discloses the server calculates the distance between the user and other users registered in the buddy list), and

determining the proximity of the other users by comparing the calculated distance with a predetermined threshold value, and wherein the proximity thus determined is transmitted to the client apparatus as information relating to the distance between the user and the other users (De Vries; paragraphs 34, 35, and 37, discloses determining the proximity of the other users based on a predetermined threshold and transmitting the proximity information to the user).

8. As to Claims 3 and 28, De Vries and Michael disclose each and every limitation of Claims 2 and 27. De Vries further discloses wherein the threshold value can be optionally set by each user (De Vries; paragraphs 34 and 35, discloses the threshold value may be set by the user).

9. As to Claims 4 and 34, De Vries and Michael disclose each and every limitation of Claims 2 and 27. De Vries further discloses wherein the location information further includes address information, and address information is transmitted to the client apparatus in addition to

Art Unit: 2445

the proximity (De Vries; paragraph 24, discloses location information transmitted also includes whether the place is the user's home or place of work).

10. As to Claims 5 and 33, De Vries and Michael disclose each and every limitation of Claims 9 and 27. De Vries further discloses wherein

means for storing information indicating whether a user gives consent for information , relating to the distance thereof to be transmitted to the other users is provided for each user, and the information relating to the distance is not transmitted to the client apparatus of users that have not consented to the transmission of information relating to distance (De Vries; paragraph 29, discloses the user consenting to place specific information being provided to other users in order for the server to provide the information).

11. As to Claims 6 and 35, De Vries and Michael disclose each and every limitation of Claims 4 and 34. De Vries further discloses wherein

means for storing information indicating whether a user gives consent for address information thereon to be transmitted to other users is provided for each user, and the address information is not transmitted to the client apparatus of users that have not consented to the transmission of address information (De Vries; paragraph 29, discloses the user consenting to place specific information being provided to other users in order for the server to provide the information).



Art Unit: 2445

12. As to Claims 7 and 24, De Vries and Michael disclose each and every limitation of Claims 9 and 23. De Vries further discloses wherein

the buddy list is constituted by a plurality of community sets in which other users whose state the user wishes to watch are registered in groups (De Vries; paragraph 29, discloses the buddy list is constituted by a plurality of community sets); and

information indicating the states of the other users registered in a community set designated by the user and information relating to the distances between the user and the other users are transmitted to the client apparatus (De Vries; Figure 1, and paragraphs 6-8 and 24-31, discloses the server transmitting to each user state, location, and proximity information regarding other users registered in the buddy list).

13. As to Claims 13 and 29, De Vries and Michael disclose each and every limitation of Claims 9 and 27. De Vries further discloses:

means for receiving location information from each of the client apparatuses (De Vries; Figure 1, and paragraphs 6-8 and 24-31, discloses a server that holds location information about a user that is received from each client apparatus).

14. As to Claims 14 and 30, De Vries and Michael disclose each and every limitation of Claims 9 and 27. De Vries further discloses:

means for transmitting location information to each of the client apparatuses (De Vries; Figure 1, and paragraphs 6-8 and 24-31, location information to each client apparatus).

Art Unit: 2445

15. As to Claims 16 and 32, De Vries and Michael disclose each and every limitation of Claims 9 and 27. De Vries further discloses:

means for determining location information using a base station id associated with each of the client apparatuses (De Vries; paragraph 21; wireless tower).

16. As to Claim 36, De Vries and Michael disclose each and every limitation of Claim 9. De Vries further discloses wherein information relating to distance between the user and other users includes location information of the other users that is transmitted to the user and used by the user to calculate the distance (De Vries; paragraph 62).

17. As to Claim 38, De Vries and Michael disclose each and every limitation of Claim 23. De Vries further discloses:

transmitting, to each user, location information for at least one other user in the buddy list (De Vries; Figure 1, and paragraphs 6-8 and 24-31, discloses the server transmitting to each user state, location, and proximity information regarding other users registered in the buddy list).

18. As to Claim 39, De Vries and Michael disclose each and every limitation of Claim 38. De Vries further discloses:

each of the users determining proximity of other users in the buddy list by calculating a distance between the user and the at least one other user using the location information (De Vries; paragraph 62).

Art Unit: 2445

19. As to Claim 40, De Vries and Michael disclose each and every limitation of Claim 39. De Vries further discloses:

comparing the distance with a predetermined threshold value (De Vries; paragraphs 34, 35, and 37).

20. As to Claim 41, De Vries and Michael disclose each and every limitation of Claim 38. De Vries further discloses wherein the location information includes latitude and longitude information (De Vries; Figure 1, and paragraphs 13).

21. As to Claim 42, De Vries and Michael disclose each and every limitation of Claim 38. De Vries further discloses wherein transmitting location information and transmitting information indicating the states of other users are performed independently (De Vries; Figure 1, and paragraphs 6-8 and 24-31).

22. As to Claim 43, De Vries and Michael disclose each and every limitation of Claim 38. De Vries further discloses wherein the location information is the proximity of the other users to the user (De Vries; Figure 1, and paragraphs 6-8 and 24-31).

Art Unit: 2445

23. As to Claim 10, De Vries discloses a client apparatus in a presence display system comprising a server apparatus and a client apparatus for each user, constituted to allow the client apparatus to display the states of other users, comprising:

means for transmitting information indicating the state of the user and location information to the server apparatus (De Vries; paragraph 6, discloses the user transmitting information indicating the state and location of the user);

means for receiving information indicating the states of other users and information relating to the distance between the user and the other users from the server apparatus (De Vries; paragraphs 6-8 and 24-31, discloses the user receiving information from the server indicating the state, location, and proximity of other users);

means for displaying the states of the other users in a display form that corresponds with the distance between the other users and the user on the basis of the information indicating the states of the other users and information relating to the distance between the user and the other users thus received (De Vries; paragraph 6, discloses graphically displaying the state, location, and proximity information determined by the server on the client device); and

De Vries does not explicitly disclose, however Michael discloses means for creating a list of other users that are watching the state of the user and allowing users to specify which watchers are authorized to receive their presence information (Michael; paragraphs 19 and 21, discloses creating and providing a list of watchers to the user for authorization).

Although Michael does not explicitly state that a watcher list is transmitted to the user in accordance with a request from the user, the fact that the server is creating, maintaining, and providing a buddy list to a user upon request, strongly points to the capability of the server,

Art Unit: 2445

which already creates and maintains a watcher list, to provide that watcher list to users upon request. Furthermore, one of ordinary skill in the art would have strong motivation to make this modification in view of the fact that Michael discloses that users can specify which particular watchers are authorized to receive their presence information. For a user to specify particular watchers, it would be strongly beneficial, if not necessary, for the user to be provided with a list of watchers.

24. As to Claim 11, De Vries and Michael disclose each and every limitation of Claim 10.

De Vries further discloses wherein

the information relating to the distance between the user and the other users is the proximity that is determined by comparing the distance between the user and the other users with a predetermined threshold value (De Vries; paragraphs 34 and 35, discloses determining the proximity between the user and other users using a predetermined threshold value); and

the displaying means displays an image corresponding with the information indicating the states of the other users received from the server apparatus with a size that corresponds with the proximity (De Vries; paragraphs 6, 34, and 35, discloses graphically displaying the state, location, and proximity information determined by the server on the client device).

25. As to Claim 12, De Vries and Michael disclose each and every limitation of Claim 10.

De Vries further discloses wherein

the information relating to the distance between the user and the other users further includes address information, and the displaying means is capable of displaying the addresses of

Art Unit: 2445

the other users (De Vries; paragraphs 6 and 24, discloses graphically displaying the state, location, and proximity information, including address information, determined by the server on the client device).

26. As to Claim 18, De Vries and Michael disclose each and every limitation of Claim 10.

De Vries further discloses:

means for transmitting location information to the server (De Vries; Figure 1, and paragraphs 6-8 and 24-31, discloses a server that holds location information about a user that is transmitted by each client apparatus).

27. As to Claim 19, De Vries and Michael disclose each and every limitation of Claim 10.

De Vries further discloses:

means for receiving location information from the server (De Vries; Figure 1, and paragraphs 6-8 and 24-31, location information received by client apparatus).

28. As to Claim 21, De Vries and Michael disclose each and every limitation of Claim 10.

De Vries further discloses:

means for determining location information using a base station id associated with the client apparatus (De Vries; paragraph 21; wireless tower).

29. As to Claim 37, De Vries and Michael disclose each and every limitation of Claim 10.

De Vries further discloses wherein information relating to distance between the user and other

Art Unit: 2445

users includes location information of the other users that is transmitted to the client apparatus and used by the client apparatus to calculate the distance (De Vries; paragraph 62).

30. As to Claim 44, De Vries discloses a server apparatus, comprising:

a user data section containing information indicating the states of each user and containing a buddy list that registers, for each user, other users whose states the user wishes to watch (De Vries; Figure 1, and paragraphs 6-8 and 24-31); and

a web server, coupled to the user data section to transmit, to each user, information indicating the states of the other users registered in the buddy list (De Vries; Figure 1, and paragraphs 6-8 and 24-31),

De Vries does not explicitly disclose, however Michael discloses creating a list of other users that are watching the state of the user and allowing users to specify which watchers are authorized to receive their presence information (Michael; paragraphs 19 and 21, discloses creating and providing a list of watchers to the user for authorization).

Although Michael does not explicitly state that a watcher list is transmitted to the user in accordance with a request from the user, the fact that the server is creating, maintaining, and providing a buddy list to a user upon request, strongly points to the capability of the server, which already creates and maintains a watcher list, to provide that watcher list to users upon request. Furthermore, one of ordinary skill in the art would have strong motivation to make this modification in view of the fact that Michael discloses that users can specify which particular watchers are authorized to receive their presence information. For a user to specify particular

Art Unit: 2445

watchers, it would be strongly beneficial, if not necessary, for the user to be provided with a list of watchers.

31. As to Claim 45, De Vries and Michael disclose each and every limitation of Claim 44.

De Vries further discloses wherein location information is provided to at least one user for at least one of the other users that is in the buddy list (De Vries; Figure 1, and paragraphs 6-8 and 24-31).

32. As to Claim 46, De Vries and Michael disclose each and every limitation of Claim 45.

De Vries further discloses wherein each of the users determines proximity of other users in the buddy list by calculating a distance between the user and the at least one other user using the location information (De Vries; paragraph 62).

33. As to Claim 47, De Vries and Michael disclose each and every limitation of Claim 46.

De Vries further discloses wherein the distance is compared with a predetermined threshold value (De Vries; paragraphs 34, 35, and 37).

34. As to Claim 48, De Vries and Michael disclose each and every limitation of Claim 45.

De Vries further discloses wherein the location information includes latitude and longitude information (De Vries; Figure 1, and paragraphs 13).



Art Unit: 2445

35. As to Claim 49, De Vries and Michael disclose each and every limitation of Claim 45.

De Vries further discloses wherein providing location information and providing information indicating the states of other users are performed independently (De Vries; Figure 1, and paragraphs 6-8 and 24-31).

36. As to Claim 50, De Vries and Michael disclose each and every limitation of Claim 45.

De Vries further discloses wherein the location information is the proximity of the other users to the user (De Vries; Figure 1, and paragraphs 6-8 and 24-31).

37. Claims 8, 17, 22, 25, and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over De Vries and Michael as applied to Claims 7, 10, and 24 above, and further in view of U.S. Patent No. 6,658,095 to Yoakum et al. (hereinafter “Yoakum”).

38. As to Claims 8 and 25, De Vries and Michael disclose each and every limitation of Claims 7 and 24. De Vries and Michael do not explicitly disclose, however Yoakum discloses wherein

a relative presence setting table, which associates and stores information indicating the state of the user and information indicating states transmitted to the other user in accordance with the community sets to which the other users that have registered the user in a buddy list belong, is provided for each user; and when information indicating the states of each user is transmitted to other users that are watching the state of the user, information indicating states corresponding

Art Unit: 2445

with the community sets of the other users is transmitted by referencing the relative presence setting table (Yoakum; column 2 lines 31-54 and column 7 lines 1-35, discloses a presence system that transmits different presence information to different users or groups of users based on the same state information using rules management logic which is referenced to evaluate the state information and provide the different presence information).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify a presence system, as disclosed by De Vries, to include a relative presence setting table, as disclosed by Yoakum, in order to provide different presence information to different users (Yoakum; column 2 lines 22-29).

39. As to Claims 17 and 26, De Vries, Michael, and Yoakum disclose each and every limitation of Claims 8 and 25. Yoakum further discloses wherein the relative presence setting table causes different relative presence information to be displayed for different community sets of the other users (Yoakum; column 2 lines 31-54 and column 7 lines 1-35; different presence information displayed for different groups).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify a presence system, as disclosed by De Vries, to include a relative presence setting table, as disclosed by Yoakum, in order to provide different presence information to different users (Yoakum; column 2 lines 22-29).

40. As to Claim 22, De Vries and Michael disclose each and every limitation of Claim 10. De Vries and Michael do not explicitly disclose, however Yoakum discloses wherein

Art Unit: 2445

a relative presence setting table, which associates and stores information indicating the state of each user and information indicating states transmitted to the other user in accordance with the community sets to which the other users that have registered the user in a buddy list belong, is provided for each user; and when information indicating the states of each user is transmitted to other users that are watching the state of the user, information indicating states corresponding with the community sets of the other users is transmitted by referencing the relative presence setting table, wherein the relative presence setting table causes different relative presence information to be displayed for different community sets of the other users (Yoakum; column 2 lines 31-54 and column 7 lines 1-35, discloses a presence system that transmits different presence information to different users or groups of users based on the same state information using rules management logic which is referenced to evaluate the state information and provide the different presence information; different presence information displayed for different groups).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify a presence system, as disclosed by De Vries, to include a relative presence setting table, as disclosed by Yoakum, in order to provide different presence information to different users (Yoakum; column 2 lines 22-29).

41. Claims 15, 20, and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over De Vries and Michael as applied to Claims 9, 10, and 27 above, and further in view of U.S. Patent Application Publication No. 2004/0162882 to Mora.

Art Unit: 2445

42. As to Claims 15 and 31, De Vries and Michael disclose each and every limitation of Claims 9 and 27. De Vries and Michael do not explicitly disclose, however Mora discloses:

means for transmitting a state of movement of each user to each of the client apparatuses (Mora; paragraphs 18 and 22; state of motion).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify presence information, as disclosed by De Vries, to include state of movement, as disclosed by Mora, in order to provide real-time presence information.

43. As to Claim 20, De Vries and Michael disclose each and every limitation of Claim 10. De Vries and Michael do not explicitly disclose, however Mora discloses:

means for receiving a state of movement of each user from the server (Mora; paragraphs 18 and 22; state of motion).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify presence information, as disclosed by De Vries, to include state of movement, as disclosed by Mora, in order to provide real-time presence information.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vivek Krishnan whose telephone number is (571) 270-5009. The examiner can normally be reached on Monday through Friday from 9:00 AM to 5:30 PM EST.

Art Unit: 2445

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivek Srivastava can be reached on (571) 272-7304. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/V. K./

Examiner, Art Unit 2445

/VIVEK SRIVASTAVA/

Supervisory Patent Examiner, Art Unit 2445